KOREAN 99-55260

FIG. 1

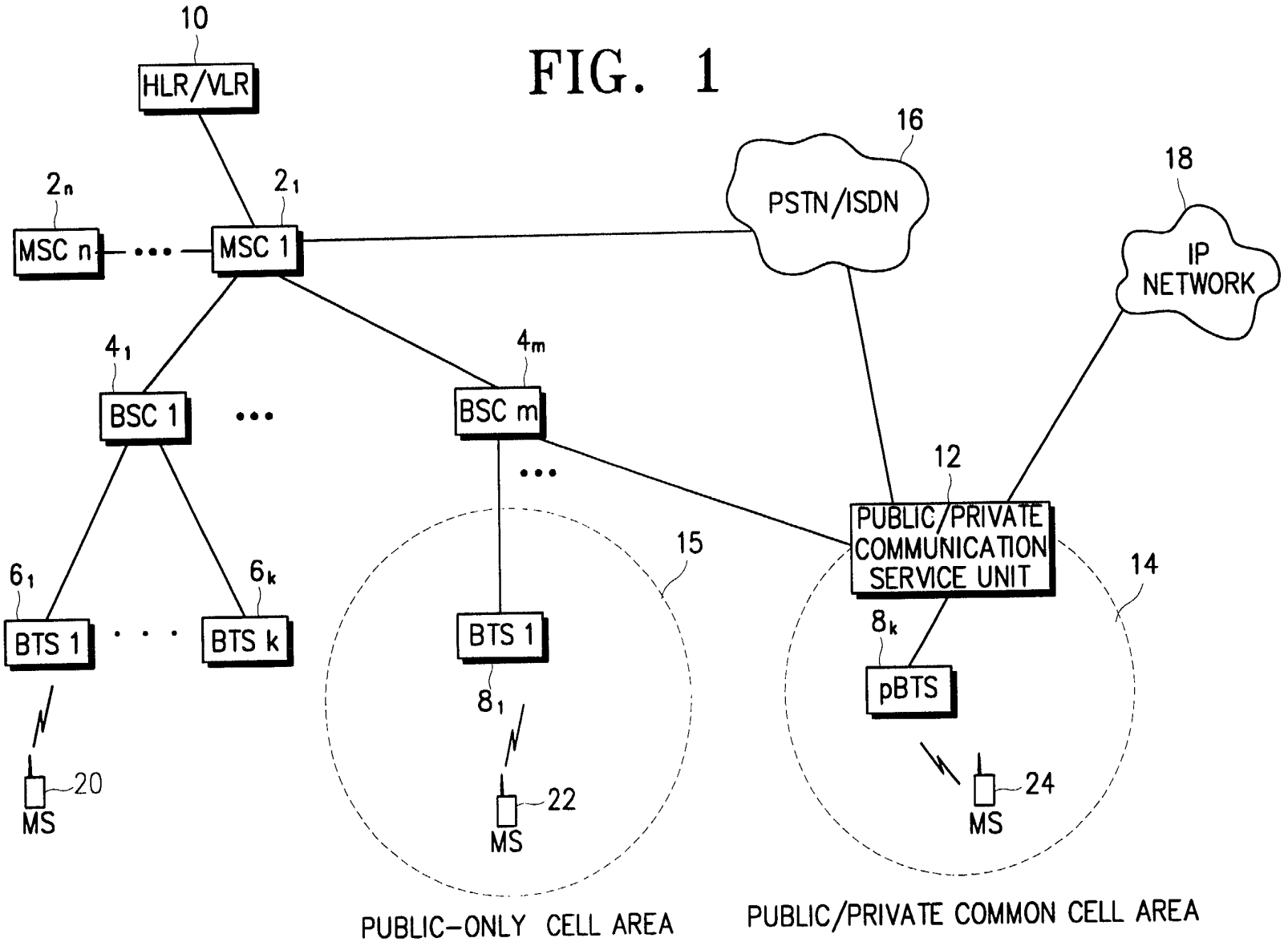


FIG. 2

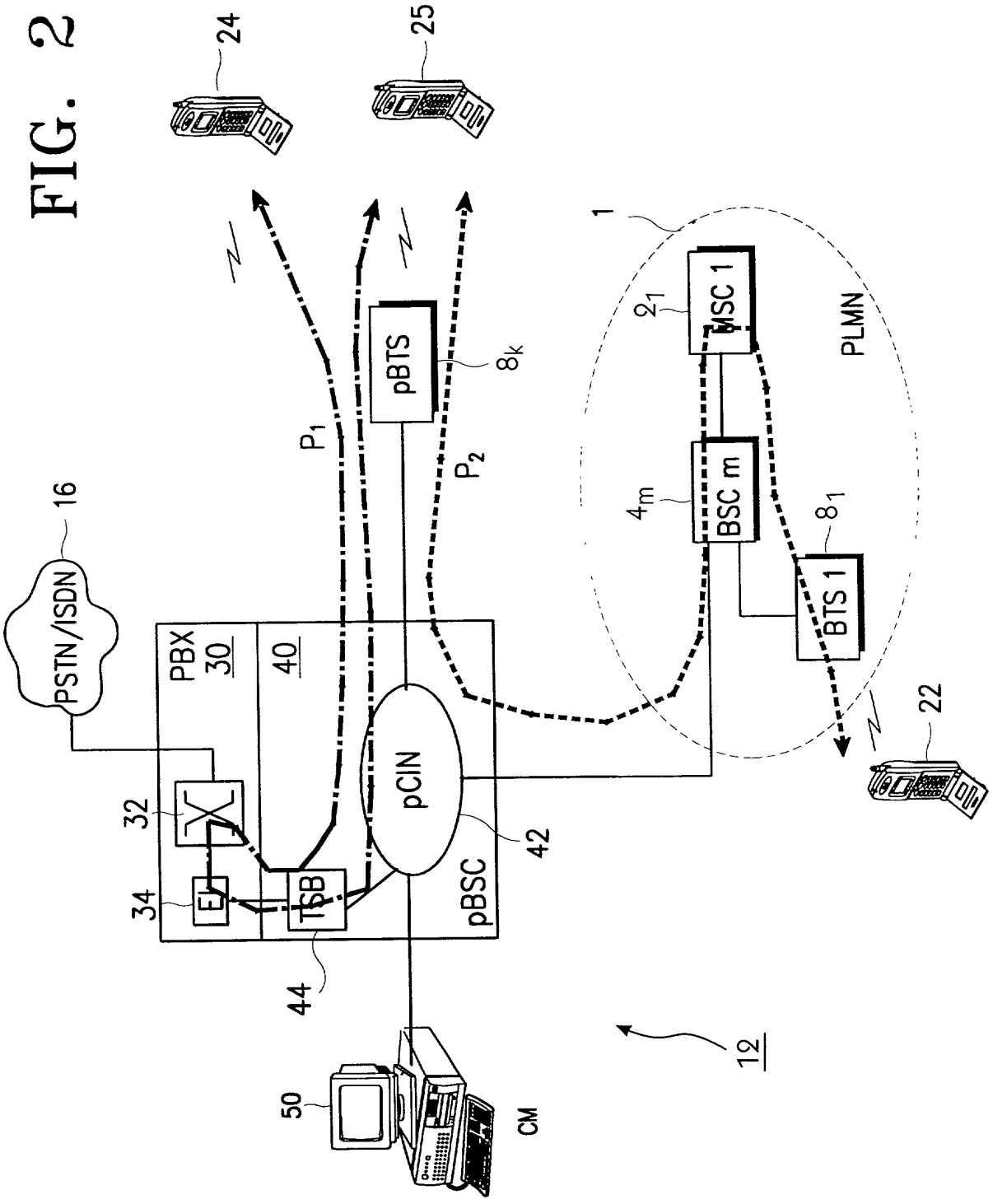

24
25
1
PLMN
MSC 1
BSC m
BTS 1
2_1
4_m
8_1
8_k
pBTS
P_1
P_2
22
16
PSTN/ISDN
PBX
30
40
32
34
E
TSB
pCIN
42
pBSC
44
50
CM
12

FIG. 3

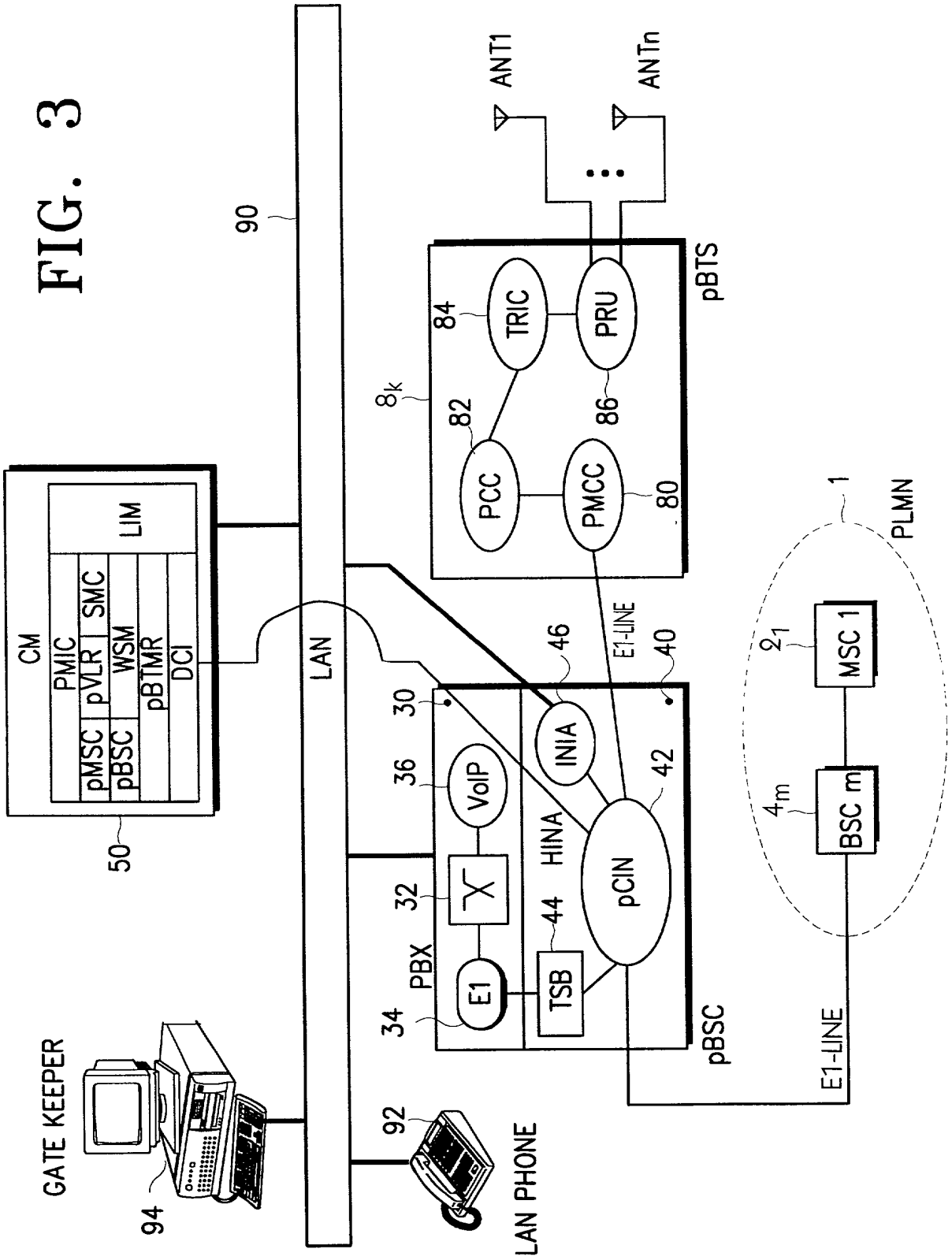
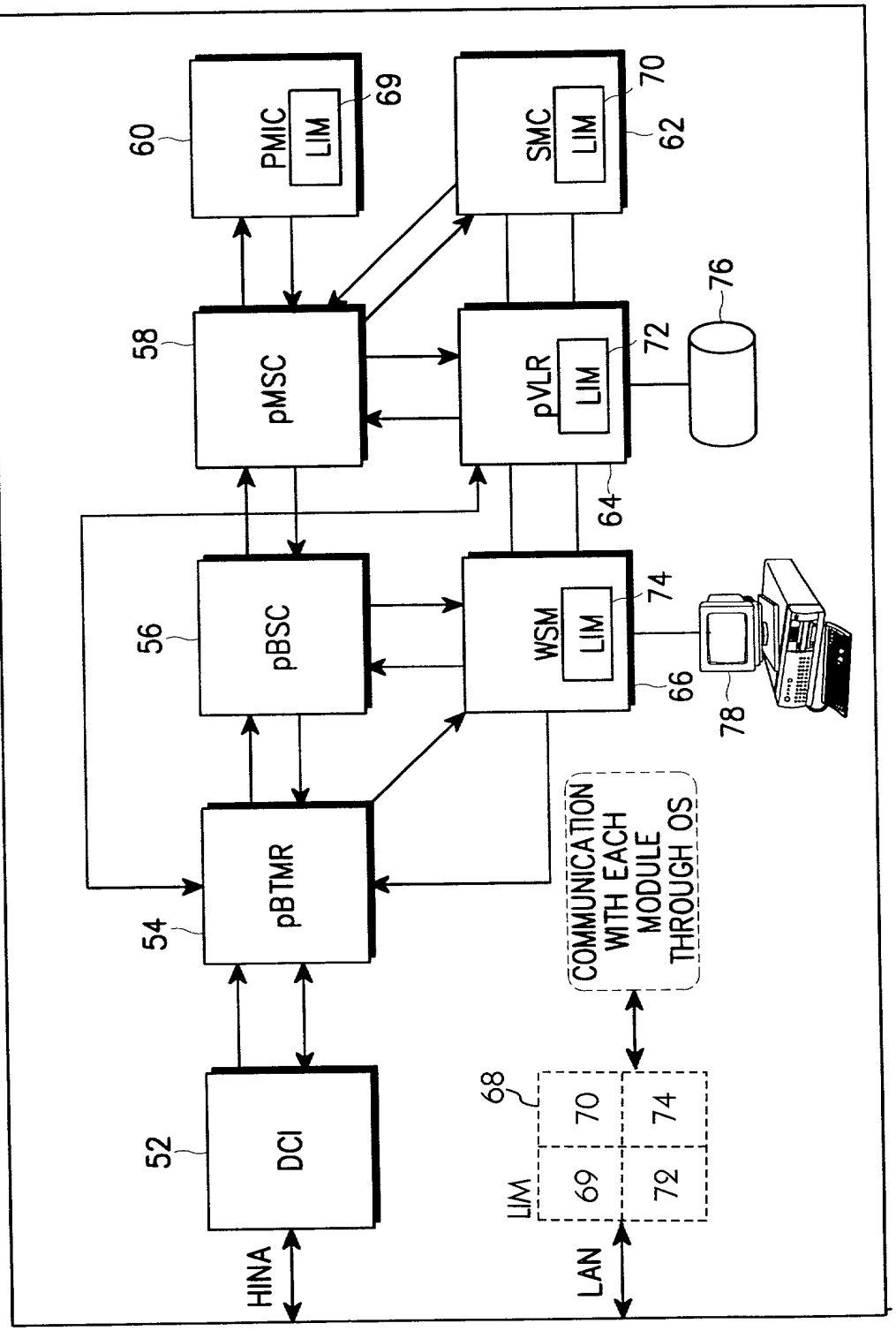

CM
PMIC
pMSC
pBSC
pVLR
WSM
pBTMR
SMC
DCI
LIM
50
LAN
90
ANT1
ANTn
pBTS
8k
84
TRIC
PRU
82
86
PCC
PMCC
80
E1-LINE
40
46
INIA
30
36
VoIP
42
HINA
pCIN
32
44
PBX
E1
TSB
34
pBSC
1
PLMN
21
MSC 1
4m
BSC m
E1-LINE
GATE KEEPER
94
92
LAN PHONE

FIG. 4


50
60
PMIC
LIM
69
SMC
LIM
70
62
58
pMSC
pVLR
LIM
72
76
64
56
pBSC
WSM
LIM
74
66
78
54
pBTMR
COMMUNICATION WITH EACH MODULE THROUGH OS
52
DCI
68
70
74
LIM
69
72
HINA
LAN

MIN	WIRE TERMINAL'S EXTENSION NUMBER	SUBSCRIBER'S NAME

FIG. 5

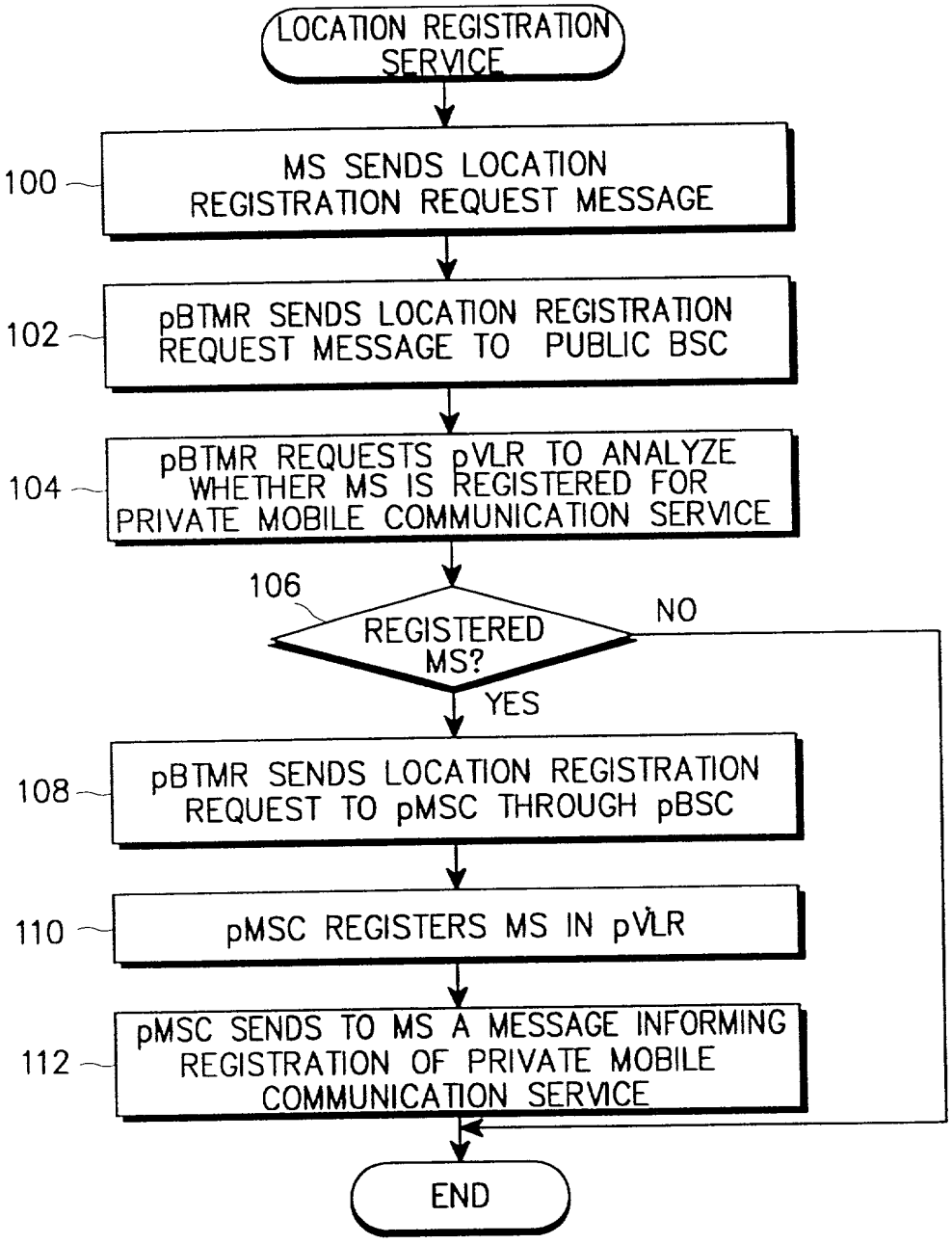

LOCATION REGISTRATION SERVICE
100
MS SENDS LOCATION REGISTRATION REQUEST MESSAGE
102
pBTMR SENDS LOCATION REGISTRATION REQUEST MESSAGE TO PUBLIC BSC
104
pBTMR REQUESTS pVLR TO ANALYZE WHETHER MS IS REGISTERED FOR PRIVATE MOBILE COMMUNICATION SERVICE
106
REGISTERED MS?
NO
YES
108
pBTMR SENDS LOCATION REGISTRATION REQUEST TO pMSC THROUGH pBSC
110
pMSC REGISTERS MS IN pVLR
112
pMSC SENDS TO MS A MESSAGE INFORMING REGISTRATION OF PRIVATE MOBILE COMMUNICATION SERVICE
END

FIG. 6

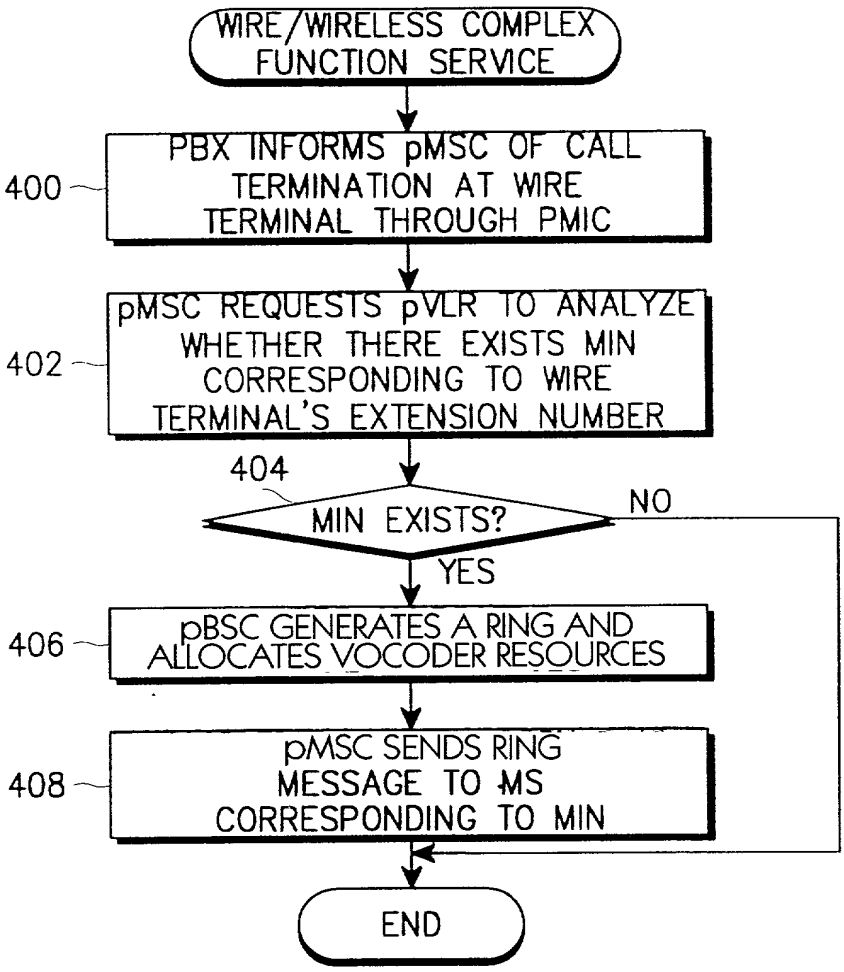

WIRE/WIRELESS COMPLEX FUNCTION SERVICE
400
PBX INFORMS pMSC OF CALL TERMINATION AT WIRE TERMINAL THROUGH PMIC
402
pMSC REQUESTS pVLR TO ANALYZE WHETHER THERE EXISTS MIN CORRESPONDING TO WIRE TERMINAL'S EXTENSION NUMBER
404
MIN EXISTS?
NO
YES
406
pBSC GENERATES A RING AND ALLOCATES VOCODER RESOURCES
408
pMSC SENDS RING MESSAGE TO MS CORRESPONDING TO MIN
END

FIG. 7